ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Index Number: 521-511 Date: March 24, 2023 Originator: Joshua Turley

Phone: (850) 414-4475

Email: joshua.turley@dot.state.fl.us **Summary of the changes:**

Standard Plans:

Sheet Number (s): 1 and 3 of 3

Index Title: CONCRETE BARRIER/NOISE WALL (14'-0")

Sheet 1: Removed the reference to note 7 as there is no note 7; Updated note references in callouts.

Sheet 3: Corrected reinforcing steel estimated quantities.

Commentary / Background:

Theres no note 7 so removed the reference to it and renumbers to the correct references.

The estimate for reinforcing steel was slightly off for the CIP version. We updated the estimate.

Other Affected Offices	/ Documents:	Provide name of	person contacted)
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Revised or Proposed Standard Plan Instruction (SPI)

Yes	0	
	Other Standard Plans –	
	T FDOT Design Manual –	
	Basis of Estimates Manual –	
/	Standard Specifications – 521-723	
	Approved Product List –	
	Construction –	
	Maintenance –	
Origination Package Includes: (Submit package to Rick Jenkins)		
Yes	I/A	

Redline Mark-ups

✓ Other Support Documents

Implementation:

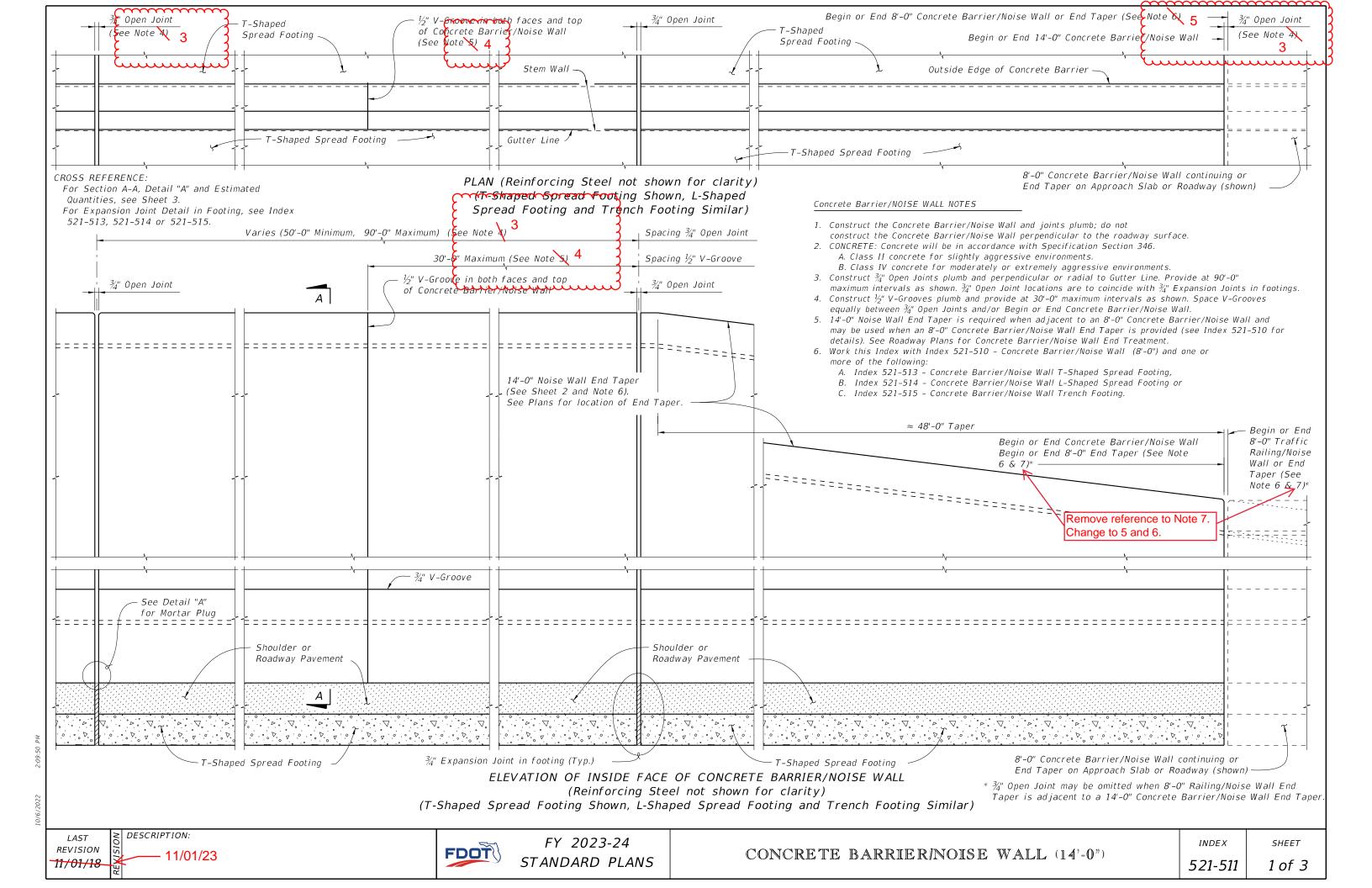
☐ Design Bulletin (Interim)

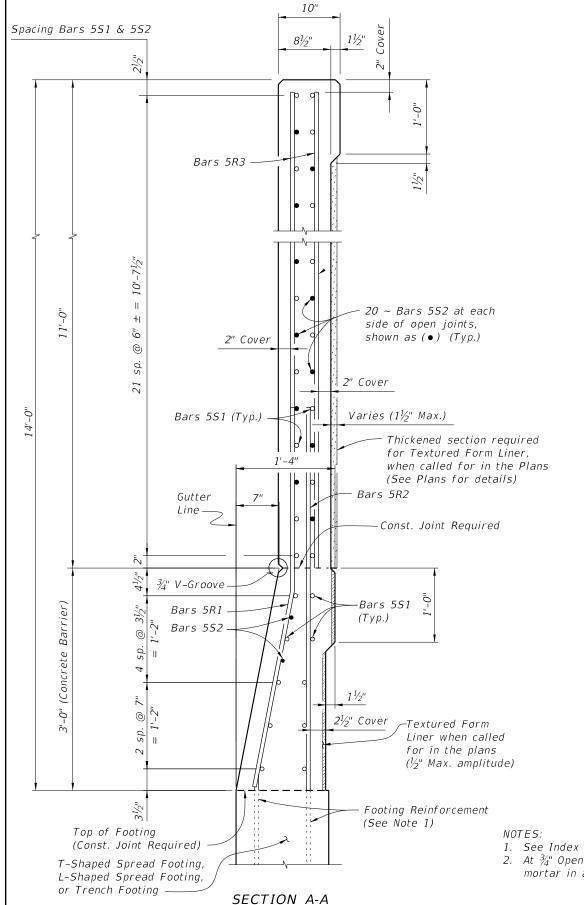
☐ DCE Memo

Program Mgmt. Bulletin

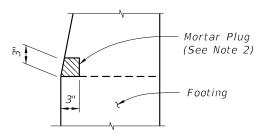
FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form





TYPICAL SECTION THRU CONCRETE BARRIER/NOISE WALL



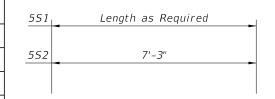
DETAIL "A" -SECTION AT OPEN JOINT

- 1. See Index 521-513, 521-514 or 521-515 for footing reinforcement.
- 2. At $\frac{3}{4}$ " Open Joints, plug the lower 3" portion of the open joint by filling it with mortar in accordance with Specification Section 400.

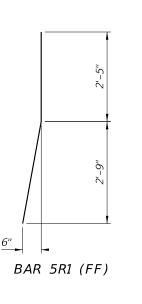
CHANGED TO: 120.88 378.22

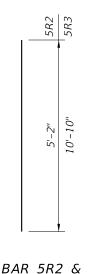
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL			
MARK	SIZE	LENGTH	
R1	5	5'-2"	
R2	5	5'-2 ¹ / ₂ "	
R3	5	10'-10"	
S1	5	AS REQD.	
<i>S2</i>	5	7'-3"	



BARS 5S1 & 5S2





BAR 5R3

REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints will have a 2" minimum cover.
- 3. Bars 5R may be continuous or spliced at construction joints. Lap splices for Bars 5R, and 5S1 will be a minimum of 2'-2".
- 4. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

ESTIMATED CONCRETE BARRIER/NOISE WALL QUANTITIES

ITEM	UNIT	QUANTITY
Concrete (Concrete Barrier)	CY/FT	0.107
Concrete (Noise Wall, excluding any thickening)	CY/FT	0.293
Reinforcing Steel (Railing/Noise Wall) (Bars R1, R2, R3, S1 & V)	LB/FT	100.31
Additional Reinf. @ Open Joint (Railing/Noise Wall)	LB-	397.38

CROSS REFERENCE:

For locations of Section A-A and Detail "A", see Sheet 1.

DESCRIPTION: LAST REVISION 11/01/23 11/01/18

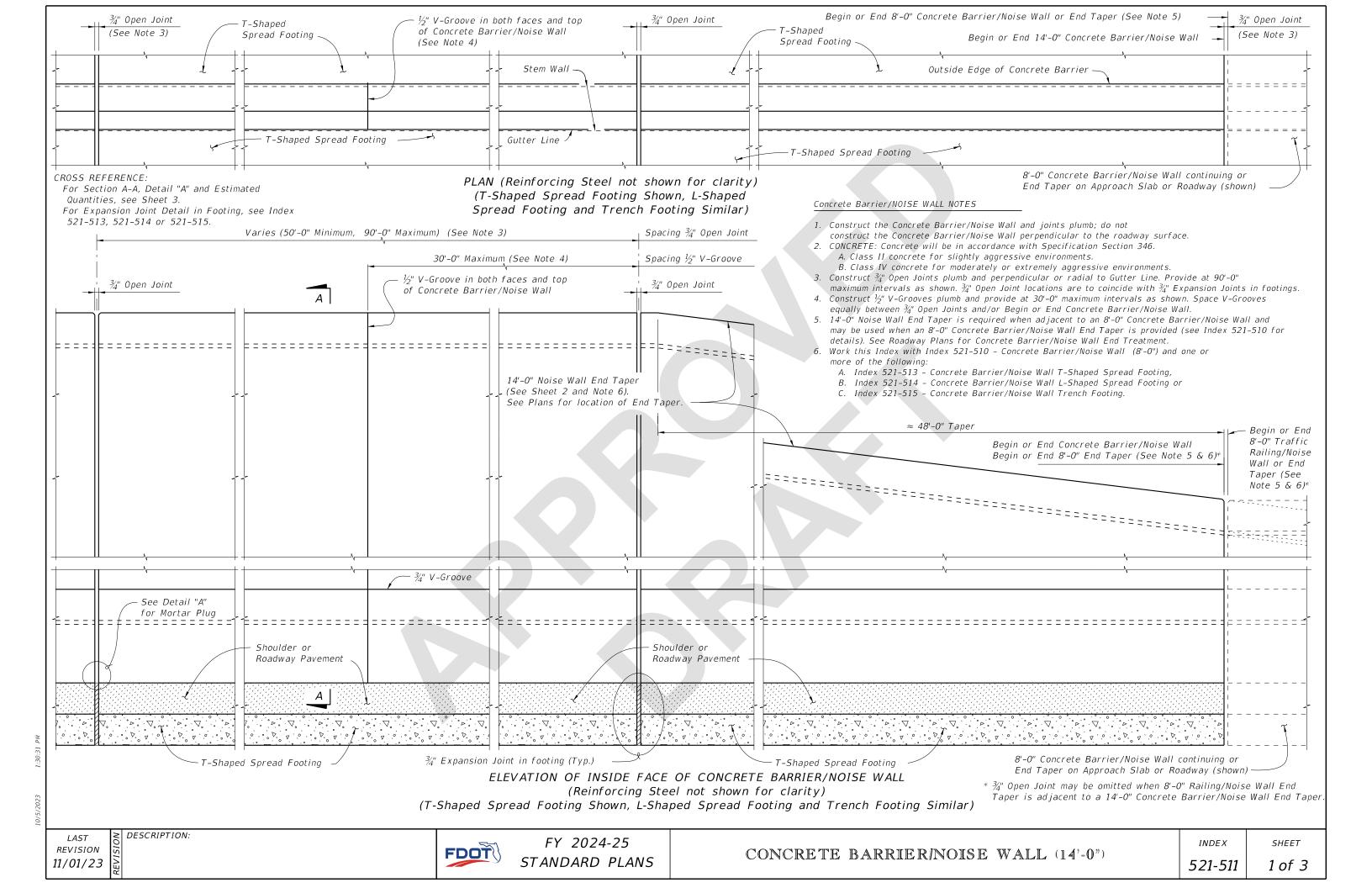


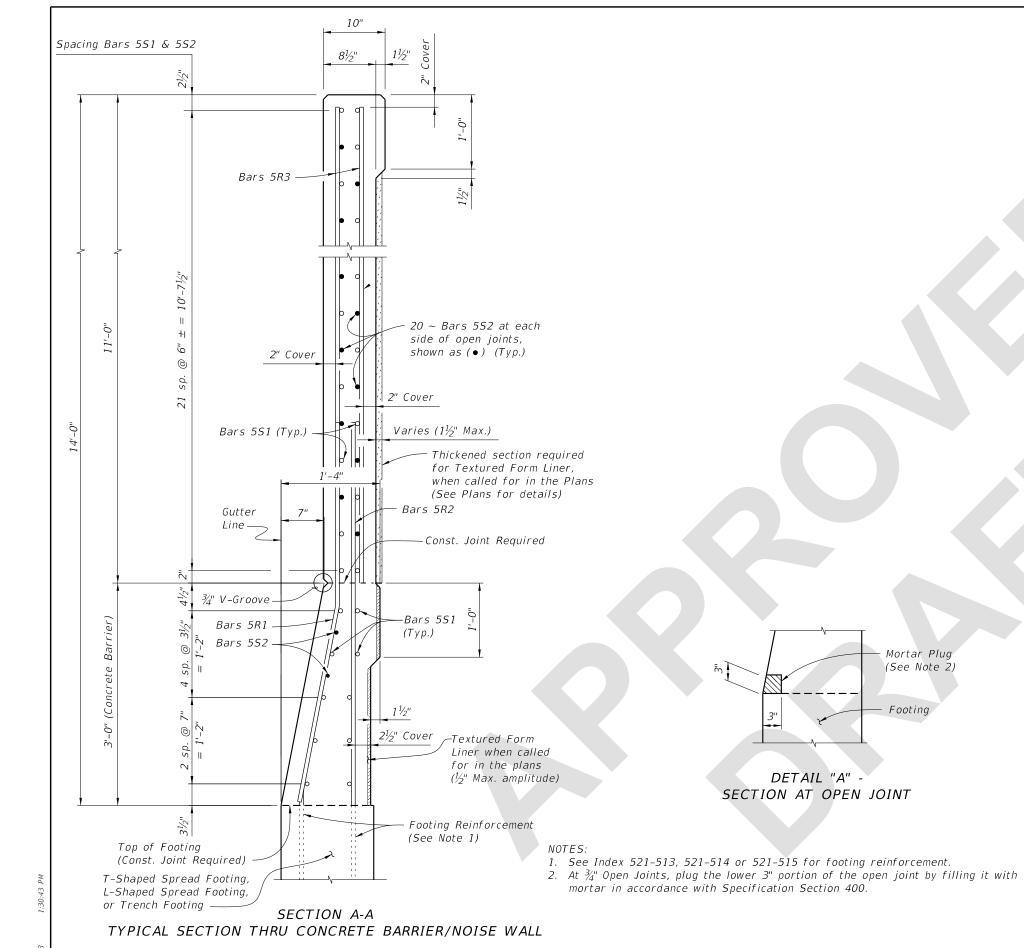
FY 2023-24 STANDARD PLANS

CONCRETE BARRIER/NOISE WALL (14'-0")

INDEX SHEET *521-511*

3 of 3



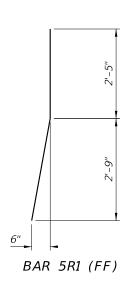


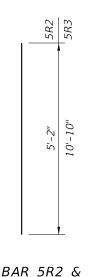
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL			
MARK	SIZE	LENGTH	
R1	5	5'-2"	
R2	5	5'-2 ¹ / ₂ "	
R3	5	10'-10"	
51	5	AS REQD.	
52	5	7'-3"	

551	Length as Required	
552	7'-3"	
•		-

BARS 5S1 & 5S2





BAR 5R3

REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
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ESTIMATED CONCRETE BARRIER/NOISE WALL QUANTITIES

ITEM	UNIT	QUANTITY
Concrete (Concrete Barrier)	CY/FT	0.107
Concrete (Noise Wall, excluding any thickening)	CY/FT	0.293
Reinforcing Steel (Railing/Noise Wall) (Bars R1, R2, R3, S1 & V)	LB/FT	120.88
Additional Reinf. @ Open Joint (Railing/Noise Wall)	LB	378.22

CROSS REFERENCE:

For locations of Section A-A and Detail "A", see Sheet 1.

DESCRIPTION: REVISION 11/01/23

